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	a	Cons Ind Nu	stant Hop Imber Se	opers ntences
			Homewo	
Jse ti	ne Number	Line 0–30 p	age in the Refe	rence section of the S
Guide	to help yo	u complete	each table.	
1.	A +3 hoppe	er starts at 0.		
	Number of Hops	Hop Size	Lands On	Number Sentence
	1	3		
	2	3	6	2 × 3 = 6
	3	3		
	4	3		
	5	3		
2.	A +5 hoppe	er starts at 0.		
	Number of Hops	Hop Size	Lands On	Number Sentenc
	1	5		
	2	5		
	3	5		
	4	5		
	5	5		
3.	A constant	hopper start	s at 0.	
	Number of Hops	Hop Size	Lands On	Number Sentenc
	1		4	
	2		8	
	3		12	
	4		16	
	5		20	
	-			

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11. Kim is correct. Possible response: I multiplied 4×6 first to get 24 and then added 2 to make 26.

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6. A. 24

Constant Hoppers and Number Sentences (SAB pp. 391–392) Questions 1–7

I. A +3 hopper starting on 0

Number of Hops	Hop Size	Lands On	Number Sentence
1	3	3	$1 \times 3 = 3$
2	3	6	2 × 3 = 6
3	3	9	$3 \times 3 = 9$
4	3	12	$4 \times 3 = 12$
5	3	15	$5 \times 3 = 15$

2. A +5 constant hopper starting on 0

Number of Hops	Hop Size	Lands On	Number Sentence
1	5	5	$1 \times 5 = 5$
2	5	10	$2 \times 5 = 10$
3	5	15	$3 \times 5 = 15$
4	5	20	$4 \times 5 = 20$
5	5	25	$5 \times 5 = 25$

3. A constant hopper starting on 0

Number of Hops	Hop Size	Lands On	Number Sentence
1	4	4	$1 \times 4 = 4$
2	4	8	$2 \times 4 = 8$
3	4	12	$3 \times 4 = 12$
4	4	16	$4 \times 4 = 16$
5	4	20	$5 \times 4 = 20$

TG • Grade 3 • Unit 10 • Lesson 2 • Answer Key

Answer Key • Lesson 2: Operations On A Number Line

Number of Hops	Hop Size	Lands On	Number Sentence
1	3	5	$2 + 3 \times 1 = 5$
2	3	8	$2+3\times2=8$
3	3	11	$2+3\times3=11$
4	3	14	$2+3\times 4=14$
5	3	17	$2 + 3 \times 5 = 17$

4. A +3 hopper starting on 2

5. A -2 hopper starting on 12

Number of Hops	Hop Size	Lands On	Number Sentence
1	- 2	10	$12 - 1 \times 2 = 10$
2	- 2	8	$12-2\times 2=8$
3	- 2	6	$12-3\times 2=6$
4	- 2	4	$12-4\times 2=4$
5	- 2	2	$12-5\times 2=2$

- 6. Possible response: The numbers in the Hop Size column are always the same. The numbers in the Lands On column are multiples of the hop size. Going across the rows, if you multiply the number of hops times the hop size you get the lands on number.
- 7. The number sentences in Questions 1–3 are multiplication number sentences, number of hops times hop size equals the lands on number. In Questions 4–5, two operations are performed in the number sentences. In Question 4, a number is added to the numbers multiplied to show that the hopper starts at a spot other than 0. In Question 5, the product is subtracted from 12 to show that it was a –2 hopper that started on 12.

of Ho	per Hop Size	Lands On	Number Sentence	
1	3	5	2 + 3 × 1 = 5	1
2	3			1
3	3			1
4	3			1
5	3			1
A –2 ho	pper starts on 1	12.		•
Numb of Ho	per Hop Size	Lands On	Number Sentence	
1	- 2	10	12 - 1 × 2 = 10	1
2	- 2			1
3	- 2			
4	- 2			
5	- 2			1
				ight © Kendal
How are Questio	e the number se ns 4–5?	entences in Questi	on 1–3 different from those in	Hunt Publishing Company

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